

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 (WISCONSIN AVENUE AND MONTGOMERY LANE/ MONTGOMERY AVENUE IN MONTGOMERY COUNTY, MARYLAND. MD 355 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 355 APPROACHES OPERATING CONCURRENTLY AND MONTGOMERY LANE APPROACH OPERATING ALONE.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS BOTH LEGS OF MD 355 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS MONTGOMERY AVE/MONTGOMERY LANE.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 355 (WISCONSIN AVENUE) AND MONTGOMERY AVE/LANE - NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS WISCONSIN AT MONTGOMERY. WAIT." *

WALK: RAPID TICK

MD 355 (WISCONSIN AVENUE) AND MONTGOMERY AVE/LANE - SOUTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS WISCONSIN AT MONTGOMERY. WAIT." *

WALK: RAPID TICK

MONTGOMERY AVENUE AT MD 355 (WISCONSIN AVENUE)- EAST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS MONTGOMERY AT WISCONSIN. WAIT." *

WALK: RAPID TICK

MONTGOMERY LANE AT MD 355 (WISCONSIN AVENUE). WAIT."*

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS MONTGOMERY AT WISCONSIN. WAIT." *

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH UPS AND SYSTEM PACKAGE HOUSED IN A NEMA SIZE "S" BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-02 (SHOULDER WORK)	STANDARD NO. MD-104.04-14 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.04-04 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.04-16 (INTERSECTION LEFT LANE, TURN BAY)
STANDARD NO. MD-104.04-06 (RIGHT LANE CLOSURE)	
STANDARD NO. MD-104.04-08 (CENTER LANE CLOSURE)	

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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DISTRICT UTILITY ENGINEER
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MS. ANYESHA MOOKHERJEE
ASSISTANT DISTRICT ENGINEER -
TRAFFIC (MONTGOMERY)
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MR. KAMAL HAMUD
TEAM LEADER, TRAFFIC SIGNALS
MONTGOMERY COUNTY DOT -
DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS
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MR. BOB RICKETTS
MONTGOMERY COUNTY SIGNAL SHOP
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MR. ROBERT SNYDER - OOTS
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
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MR. EDWARD RODENHIZER - OOTS
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7670

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EACH	CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAMERAS
976022	11 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (GROUND MOUNT) : - 1 EACH M2-1 (21 IN. x 15 IN.) - GROUND MOUNT - 1 EACH M1-5 (30 IN. x 24 IN.) - GROUND MOUNT - 1 EACH R4-7 (24 IN. x 30 IN.) - GROUND MOUNT
973023	102 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) : - 1 EACH R3-1 (36 IN. x 36 IN.) - MAST ARM MOUNT - 2 EACH R3-4 (36 IN. x 36 IN.) - MAST ARM MOUNT - 2 EACH R3-18 (36 IN. x 36 IN.) - MAST ARM MOUNT - 2 EACH R3-5a (30 IN. x 36 IN.) - MAST ARM MOUNT - 1 EACH R3-6 (30 IN. x 36 IN.) - MAST ARM MOUNT - 2 EACH R10-11b (24 IN. x 24 IN.) - MAST ARM MOUNT - 1 EACH R6-1(L) (36 IN. x 12 IN.) - POLE MOUNT - 1 EACH R6-1(R) (36 IN. x 12 IN.) - POLE MOUNT - 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS WISCONSIN AVENUE" - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS MONTGOMERY AVE" - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS MONTGOMERY LANE"

MONTGOMERY COUNTY

C. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY

QUANTITY	DESCRIPTION
2 EACH	MONTGOMERY COUNTY SPLICE CABINET - POLE MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 EACH	MAINTENANCE OF TRAFFIC
203030	8 C.Y.	TEST PIT EXCAVATION
585621	600 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	150 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
655383	350 S.F.	BRICK SIDEWALKS
801004	22 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801104	46 L.F.	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
802145	1 EACH	ADJUST EXISTING HANDHOLE
802501	605 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	130 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	15 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	50 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805145	65 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805155	315 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
810022	90 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
811001	4 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	20 S.F.	INSTALL GROUND MOUNTED SIGN
813015	147 S.F.	INSTALL OVERHEAD SIGN
818004	9 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
818010	1 EACH	14 FOOT BREAKAWAY PEDESTAL POLE
818051	1 EACH	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS
818052	1 EACH	STEEL POLE WITH A SINGLE 70 FOOT MAST ARM
831010	2 EACH	LED LAMP AND LUMINAIRE
837001	9 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	31 EACH	12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860290	4 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1310 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861106	430 L.F.	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
861107	2160 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	510 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
866103	2 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871041	2 EACH	INSTALL AUXILARY CABINET WITH TERMINAL STRIP - POLE MOUNT
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	8 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	8 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1 EACH	2-WIRE CENTRAL CONTROL UNIT
800000	1 EACH	VIDEO DETECTION CAMERA AND CABLE
800000	2 EACH	PAINT SIGNAL AND MAST ARM POLE FEDERAL BROWN NO. 595a-20040
800000	10 EACH	PAINT PEDESTAL POLE FEDERAL BROWN NO. 595a-20040

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (Wisconsin Avenue) at Montgomery Lane/Montgomery Ave
Bethesda, Maryland

TRAFFIC SIGNALIZATION PLAN

SCALE NONE ADVERTISED DATE 3/05/2013 CONTRACT NO. MD1175177

DESIGNED BY	S. Boss	COUNTY	Montgomery
DRAWN BY	S. Boss	LOGMILE	15035501.62 /
CHECKED BY	N. Leary	TMS NO.	L488
F.A.P. NO.	SEE TITLE SHEET	TOD NO.	9

TS NO. 10435B DRAWING TSP-15 OF 20 SHEET NO. ### OF ###

WR&A

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